

Table 1

		Ex. 1	Ex. 2	Ex. 3	Ex. 4	Ex. 5	Ex. 6	Comp. Ex. 1	Comp. Ex. 2	Comp. Ex. 3
Starting elastomer	Polymer substance	EPDM	EPDM	NR	NBR	SBR	SBS	Polymer plasticizer	Ethyl cellulose	EPDM
	Polar group	Double bond Norbornene	Double bond Norbornene	Double bond	Double bond Nitrile group	Double bond	Double bond	Ester group	Ethoxy group	Double bond Norbornene
	Average molecular weight	200,000	200,000	3,000,000	200,000	150,000	100,000	391	100,000	200,000
	T _{2n} (30°C) (μsec)	520	520	700	300	400	200	550000	50	520
	T _{2n} (150°C) (μsec)	2200	2200	5500	2000	2400	2100	impossible to measure	12000 (1 component)	2200
	T _{2nn} (150°C) (μsec)	16000	16000	18000	14000	17000	10000			16000
	f _{nn} (150°C)	0.405	0.405	0.381	0.133	0.286	0.653		impossible to measure	0.405
	Flow temperature (°C)	55	55	40	75	35	100	liquid	65	55
	Polymer material (phr)	100	100	100	100	100	100	100	100	100
	CNT (phr)	10	60	10	10	10	10	10	10	0
Composite material	Formulation	T _{2n} (150°C) (μsec)	1800	2000	1700	2200	1500	impossible to measure	13000 (1 component)	2200
		T _{2nn} (150°C) (μsec)	6000	9000	9600	5600	4000			18000
		f _{nn} (150°C)	0.183	0.089	0.045	0.171	0.135			0.385
		Flow temperature (°C)	75	100	150°C or higher	100	150°C or higher	liquid	70	55
	Crosslinked form	T _{2n} (150°C) (μsec)	575	1240	597	484	740	impossible to measure	Un-crosslinked form	640
		T _{2nn} (150°C) (μsec)	3870	3830	3380	2590	3300			4150
		f _{nn} (150°C)	0.07	0.113	0.088	0.071	0.078			0.117
		E' (30°C) (MPa)	5.86	2.61	6.9	6.6	12.5		62*	2.98
		TB (MPa)	6.7	16.6	6.5	4.6	16.2	impossible to measure	14.5*	1.7
		EB (%)	170	170	110	50	160		25*	180
		ΔT ₁ (msec/CNF 1 vol%)	4.2	8.3	11.5	7.6	7.2	4	0	0